

News story: Defence Secretary in Doha as multi-billion pound jet contract with Qatar is signed

The Defence Secretary Gavin Williamson and his Qatari counterpart, Khalid bin Mohammed al Attiyah, oversaw the signing of the deal for 24 Typhoons, building on the Statement of Intent signed in September.

In addition, the agreement signed today by the Qatar and British Governments also includes a clear intention to proceed with the purchase of Hawk aircraft.

Defence Secretary Gavin Williamson said:

It is a great pleasure to sign our biggest export deal for the Typhoon in a decade. These formidable jets will boost the Qatari military's mission to tackle the challenges we both share in the Middle East, supporting stability in the region and delivering security at home.

As we proudly fly the flag for our world-leading aerospace sector all over the globe this news is a massive vote of confidence, supporting thousands of British jobs and injecting billions into our economy.

The aircraft will be assembled in the UK by BAE Systems, supporting thousands of jobs, especially at the company's Warton site in Lancashire where it will secure work on the production line into the next decade. The biggest export deal for the Typhoon project in a decade, the purchase is valued at around £6 billion.

The deal also includes an agreement with MBDA for Brimstone and Meteor missiles and the highly-accurate Raytheon's Paveway IV UK-manufactured weapon for the jets. The Defence Secretary also agreed a package of training and co-operation between the Air Forces which will see them working together more regularly, including Qatari pilots and ground-crew training in the UK.

The UK and Qatar share a close and longstanding defence relationship, with a joint-exercise between the Royal Air Force and the Emir of Qatar's Air Force just last week seeing Typhoon jets fly over the Arabian Peninsula. The two countries share mutual interests of countering violent extremism, and ensuring stability in the region, and this purchase will deepen those ties by helping to prevent terrorism from spreading and protecting our prosperity and security at home.

Qatar is the ninth country to purchase the Typhoon, with this year seeing the first delivered to Oman. The Ministry of Defence is also leading the offer to

replace Belgium's F-16s with the jets and continues to discuss the prospect of a second batch of sales to Saudi Arabia, as it continues to bang the drum for Britain's world-leading aerospace industry around the world.

[News story: HRH The Prince of Wales awards MOD Apprentice of the Year 2017](#)

His Royal Highness, a longstanding advocate of apprenticeships and getting more young people in to science, technology, engineering, and mathematics (STEM) subject areas, presented the awards at a ceremony which took place in MOD Main Building. His Royal Highness also announced the winner of this year's MOD Apprentice of the Year in the Memorial Courtyard.

Defence Minister Harriett Baldwin said:

We are committed to investing in and celebrating the next generation of engineers, to grow our future workforce and capability in STEM far into the future.

I am delighted to see the impact our engineering apprentices have on our equipment programmes. Over 800 apprentices worked on the QE Class Carriers, and should feel a great sense of achievement today as HMS Queen Elizabeth is commissioned into Her Majesty's fleet.

Defence is the largest employer of apprentices in the UK, with 9,000 engineering apprenticeships, and a total of 20,000 apprenticeships across a range of defence disciplines. Apprenticeships are a crucial way to develop the skills required by employers and to provide people, from all backgrounds, with the opportunity to obtain skills that will contribute to their achievement in the workplace.

Defence Minister Tobias Ellwood said:

Today's winners should be very proud of their achievements, and the impressive skills they have developed through their apprenticeships.

The MOD is the largest employer of apprentices in the UK, supporting the Government's commitment to achieve three million apprenticeship starts by 2020 through our range of civilian and Armed Forces schemes.

In recognition of HRH's attendance at the MOD Engineering Apprentice Awards,

the inaugural presentation of 'His Royal Highness The Prince of Wales's Award for Services to Defence Engineering' was made. This was awarded to Chief Technician Rob Bates, who joined the RAF in 1995 as a Mechanical Technician Apprentice and was recognised for representing engineering within Defence by exemplary professional performance and selfless commitment to promotion of engineering as a career.

Chief Technician Rob Bates, winner of His Royal Highness the Prince of Wales Award for Services to Defence Engineering Award, said:

Today has been the stand out moment of my life so far. I enjoy my work and I am humbled to be recognised for it.

Defence apprenticeships give young people the opportunity to work at the heart of some of the most important projects in the UK. Over 800 apprentices have been involved in the QE Class Carrier project, delivering HMS Queen Elizabeth, which was commissioned in Portsmouth today, and HMS Prince of Wales.

DE&S Apprentice Champion Air Marshall Julian Young said:

We in DE&S are proud of our long tradition of training the next generation of MOD Apprentices through our innovative schemes.

This strong pipeline of highly-skilled talent, who are among the brightest and the best, are central to the delivery of essential equipment and support programmes for the UK's Armed Forces. I offer my sincerest congratulations to all today's winners and runners up on their sterling achievements.

Each MOD engineering apprenticeship lasts three years and, after qualifying, most apprentices go on to employment across defence.

The MOD is also offering a range of apprenticeship schemes internally to existing staff in order to invest in our workforce, by providing staff with the right training opportunities to help them develop and increase their skills, gain valuable experience and achieve a recognised qualification.

The families and guests, representatives from senior management of participating business units, representatives from competition sponsors, awarding bodies, educational establishments, and local government officials attended the ceremony alongside the apprentices.

You can find out more about apprenticeships with defence here
<https://www.gov.uk/guidance/apprenticeship-opportunities-in-the-ministry-of-defence>

List of winners

The full list of winners and their awards are as follows:

His Royal Highness, the Prince of Wales Award for Services to Defence Engineering

- Winner: Chief Technician Rob Bates

Apprentice of the Year 2017

- Winner: Matt Schofield

The Tom Nevard Memorial Competition

Phase 1 – Individual Design and Manufacturing

- Winner: Sarah Hughes (DE&S Devonport)
- Runner-up: Thomas Baker (DSTL)

Phase 2 – Individual Design and Manufacturing

- Winner: Thomas Diaper-Fox (DSTL)
- Runner-up: Chloe Garland (DE&S Abbey Wood)

Team Design and Manufacturing Event

· Winners: James Wiltshire (Phase 3, DE&S Abbey Wood), David Thomson (Phase 3, DM Beith), Will Robinson (Phase 2, DSTL), Kieran Stainer (Phase 2, DE&S Abbey Wood), Chloe Stephens (Phase 1, DE&S Abbey Wood).

· Joint runner-up: Ashley Conlon (Phase 3, DE&S Abbey Wood), Zachary Hall (Phase 3, DSTL), Ashley Biginton (Phase 2, DM Gosport), Thomas Hill (Phase 2, DE&S Abbey Wood), Chris Nowell-Smith (Phase 1, DE&S Devonport).

· Joint Runner-up: Ewan Walker (Phase 3, DSTL), Joseph Samways (Phase 3, DM Gosport), Stacey Bishop (Phase 2, DE&S Devonport), Hewlett (Phase 2, DE&S Abbey Wood), Oliver Nicholas (Phase 1, DE&S Abbey Wood).

Sir Henry Royce Memorial Foundation Medal

- Winner: Luke Worrall (DM Gosport)

QinetiQ Awards

First Year Mechanical Manufacturing Engineering Apprentice of the Year

- Winner: Oliver Kemp (DSTL)

First Year Electrical Engineering Apprentice of the Year

- Winner: George Sweeney (DSTL)

First Year Electrical Engineering Apprentice of the Year

- Winner: Cameron Fitze (DSTL)

IET Local Network Award for Student Excellence

- Winner: Zachary Hall (DSTL, Southern Region)

East Kilbride Group Training Association – Chairman’s Award 2017

- Winner: Sam Rennix (DM Beith)

Glasgow and Clyde Campus Apprentice of the Year 2017

- Winner: Russel Vincent (DM Beith)

DIO Sustainability Recycling Challenge

- Winner: Declan Heard (Phase 1, DE&S Devonport), Lawrence Parker (Phase 1, DE&S Devonport), Sarah Hughes (Phase 1, DE&S Devonport), Chris Nowell-Smith (Phase 1, DE&S Devonport)

Babcock Land Division Excellence Awards Apprentice of the Year

- Winner: Joe Sayce (Babcock DSG Donnington)

- Winner: Sarah Malkin (Babcock DSG Donnington)

[News story: Queen welcomes Royal Navy’s largest ever ship into the fleet](#)

The Queen spoke at a ceremony in Portsmouth’s naval base this morning, attended by Her Royal Highness Princess Anne, Defence Secretary Gavin Williamson, Chancellor Philip Hammond and military chiefs.

In her role as the ship’s Lady Sponsor Her Majesty addressed guests before the Ship’s Commanding Officer, Captain Jerry Kyd, read the commissioning warrant. The iconic White Ensign was then raised, symbolising the commissioning of the nation’s future flagship into the Royal Navy’s fleet.

Defence Secretary Gavin Williamson said:

Today marks the start of a hugely significant chapter for the Royal Navy, and indeed the nation, as the future flagship is commissioned into Her Majesty’s fleet. It is an honour to witness the crowning moment of an extraordinarily busy year for the Royal Navy that has

seen us name the second carrier, HMS Prince of Wales, cut steel on the first Type 26 frigates and launch the National Shipbuilding Strategy.

Our new aircraft carrier is the epitome of British design and dexterity, at the core of our efforts to build an Armed Forces fit for the future. For the next half a century both carriers will advance our interests around the globe, providing the most visible symbol of our intent and commitment to protect the UK from intensifying threats, wherever they may come from.

Having successfully completed her second stage of sea trials off the south coast of England, the carrier is back alongside at her home port of Portsmouth. Over 10,000 people across the UK have contributed to the delivery of the ship under the Aircraft Carrier Alliance.

Completing final build activity and preparing for helicopter trials in the New Year, HMS Queen Elizabeth will head to the United States for initial flight trials off the coast in autumn 2018. There are currently 150 Royal Navy and RAF personnel training in the US on our 13 F-35 jets.

The UK has worked closely on both the F-35 and carrier programmes with the US, our pre-eminent partner within NATO, enabling us to fly aircraft from each other's ships. Both of the UK's new carriers will be able to operate alongside NATO and coalition allies.

Admiral Sir Philip Jones, First Sea Lord and Chief of Naval Staff, said:

In hoisting the White Ensign from HMS Queen Elizabeth today, Britain has confirmed her place among the world's great maritime powers in the most majestic and muscular terms.

The Queen Elizabeth-class carriers will sit at the heart of a modernised and emboldened Royal Navy, capable of projecting power and influence at sea, in the air, over the land and in cyberspace, and offering our nation military and political choice in an uncertain world.

But our greatest strength of all is the young sailors and marines upon whose shoulders our continued security and prosperity rests. They are starting their careers as a new chapter opens for the Royal Navy – and like all those who have gone before them, they are ready to serve their Queen and Country.



Her Royal Highness Princess Anne also attended the commissioning ceremony. Crown Copyright.

Both new aircraft carriers will be able to perform a wide range of tasks, from humanitarian and disaster relief to fighting terrorism and high-end warfighting. In what has been termed, 'the Year of the Royal Navy' the second carrier, HMS Prince of Wales, was named in Rosyth and is structurally complete.

This year the Royal Navy has also had steel cut on the first of the Type 26 frigates and Dreadnought submarines, the launch of the National Shipbuilding Strategy, provisioning for a new class of frigate, the Type 31e, float out of the fourth Astute submarine, HMS Audacious, the naming of two Offshore Patrol Vessels and the arrival of our first two MARS Tankers in the UK.

Last month the Defence Secretary visited HMS Queen Elizabeth for the first time while at sea, meeting the crew and thanking them for their work towards UK defence.

Chief of the Air Staff, Air Chief Marshal Sir Stephen Hillier, said:

Congratulations from the Royal Air Force to the Royal Navy on achieving another important milestone in the UK's Carrier Strike capability. I know the RAF and RN F-35 crews are looking forward to starting to fly from HMS Queen Elizabeth next year.

[News story: New bullet-proof material unveiled as Defence Minister visits MOD's research hub](#)

On her visit to the Defence Science and Technology Laboratory (Dstl), she spoke with scientists who are creating a lighter, more flexible body armour for soldiers which uses a unique synthetically adjusted ceramic material that still stops bullets.

Defence Minister Harriett Baldwin said:

We've spent millions on innovation this year, developing technologies like a new way to uncover insurgents' fingerprints to mini-drones that investigate chemical hazards. The goal is always to help our Armed Forces defend the UK, and this next generation of armour will make our troops even more alert and effective on the battlefield.

Research has indicated soldiers wearing ceramic armour could see a 35 per cent weight reduction, which could make them faster and more comfortable in a warzone, whilst maintaining a high level of protection.

The synthetic biology for the armour project has been running for four years and Dstl are now ready to put samples through hardness testing. They also confirmed that a scale-up process is underway to produce samples that can be used for live-fire testing.

£6 million has been invested in synthetic biology to date for novel materials research, reaching out to academia and industry via a series of competitions. In some cases these competitions have been run jointly with the Research Councils, in others they have been run independently using MOD organisations, such as the Defence Accelerator.

The MOD has committed 1.2% of the rising £36bn defence budget, supported by a dedicated £800m Innovation Fund, to cutting-edge science and technology. 2017 has seen a number of exciting projects developed as part of the drive, to name just a few:

- A pocket-sized drone and a mini-detector known as Snake Eyes are amongst the new high-tech gadgets set to investigate future chemical or bio-hazards.
- A world-first in the US saw British soldiers controlling 4x4s with Xbox-

style controllers and a UK driverless truck leading American trucks in an unmanned convoy, providing a glimpse into the future of getting much-needed supplies to the front line.

- Cutting-edge fingerprint technology aimed at targeting criminals.
- A Laser Directed Energy Weapon that is capable of acquiring, tracking and engaging aerial and surface targets at various ranges and in different weather conditions.
- A new lightning-fast protection system, Icarus, which will be able to detect and defeat threats to armoured vehicles within 100 milliseconds.

The Defence Accelerator funds the development of suppliers' innovative ideas and provides support through to potential application. The Accelerator also funds innovations for defence and security which support economic growth and prosperity in the UK.

The Accelerator is approaching its first anniversary and has enjoyed great success, including:

- Launching 8 themed competitions
- Running 18 competition events
- Assessing over 630 proposals
- Funding 147 proposals with an investment of £17.3m

Press release: Business contribution to Britain's biggest warships recognised

HMS Queen Elizabeth, the nation's future flagship and the first of Britain's two new 65,000 tonne aircraft carriers, will be formally commissioned into the Royal Navy by Her Majesty the Queen next week (07/12).

But the construction of the 280 metre-long ship would never have been possible without the essential work undertaken by small and medium sized enterprises (SME) from around Britain.

Defence Minister Harriett Baldwin said:

On behalf of Defence, the government and the whole of the United

Kingdom, I would like to thank the hundreds of businesses around the country for the millions of hours they've spent equipping our ships in what has been an immense nationwide enterprise.

Their Herculean efforts showcase our great British talent and saw HMS Queen Elizabeth complete her 2017 sea trials with flying colours as she prepares to project our interests right across the world.

Over 700 British SME's have supported the build of the aircraft carriers in what has been a truly national endeavour. The programme has brought together the best of British industry, with construction involving more than 10,000 people including more than 800 apprentices.



Defence Minister Harriett Baldwin has recognised the vital contribution that businesses from across the UK have made to the construction of the Royal Navy's largest ever ships.

Chief of Materiel Ships at the MOD's Defence Equipment and Support organisation, Sir Simon Bollom said:

I am incredibly proud of how DE&S and our colleagues across Defence have worked in collaboration with businesses across the UK to deliver a programme of such global significance.

The success of the Queen Elizabeth class is a testament to the thousands of people who have worked on the programme and the vital

skills they bring. I look forward to continuing our important relationship with industry to bring the second ship, HMS Prince of Wales, into service.

In 2015/2016 the Ministry of Defence invested over £18bn with UK industry, supporting more than 120,000 full-time jobs, and benefiting local economies.

Last year saw the MOD's direct spend with SME's increase by over 10% across the country as it continues to make it easier for them to win defence business.

Defence Minister Harriett Baldwin has launched initiatives such as a new Supplier Portal, which brings together a range of useful information for new and prospective suppliers in one place for the first time, a dedicated Twitter account to flag opportunities to SMEs and simplified contracts for lower-value, less complex procurements.

Soon after the commissioning ceremony on Thursday 7th December, work will continue apace to ready Britain's most advanced military vessel ever for the vital role it will play in projecting Britain's influence around the world.

Next year the new F-35B Lightning II stealth jets, the most advanced warplane in the world, will start flight trials from the ship, and HMS Queen Elizabeth is on track to be fully deployable anywhere in the world by 2021.

Both of the UK's aircraft carriers are being delivered by the Aircraft Carrier Alliance, a unique partnering relationship between industry and the UK Ministry of Defence.